PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D 10 FEB 2006

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Applicant's or agent's file reference	FOR FURTHER ACTION	ON See Form P	CT/IPEA/416	WIPO	PCT
2032704PC/or	FOR FURTHER ACTION	on becromm			
International application No.	International filing date (d	ay/month/year)	Priority date ((day/month/year)	,
PCT/FI2003/000887	19-11-2003				
International Patent Classification (IPC)	r national classification and	IPC			
See Supplemental Box					,
Applicant					
Biofons LTD et al					
This report is the international pro- Authority under Article 35 and to	eliminary examination repor ransmitted to the applicant a	t, established by thi coording to Article	s International 36.	Preliminary Exa	mining
2. This REPORT consists of a total	of 5 sheets,	including this cover	r sheet.		
3. This report is also accompanied t					
		\ 1 - C		chaeta as foi	llowe:
a (sent to the applican	t and to the International Bu			sheets, as fol	
and/or sheets	description, claims and/or of s containing rectifications at ve Instructions).	thorized by this Au	thority (see Ru	le 70.16 and Sec	tion 607 of the
sheets which	supersede earlier sheets, hu	it which this Author	ity considers c	ontain an amend	ment that goes
beyond the d	lisclosure in the internations	d application as file	d, as indicated	in item 4 of Box	No. I and the
Supplementa		_			
b (sent to the Internati	ional Bureau only) a total of	(indicate type and i	number of elec	tronic carrier(s))	alastronis
form only as indica	, containin ted in the Supplemental Box	g a sequence listing	and/or tables to ace Listing (see	Section 802 of	the
Administrative Instr	uctions).				
4. This report contains indications	relating to the following iter	ns:			•
=	of the report				
Box No. II Priorit	у	•			
Box No. III Non-e	stablishment of opinion with	h regard to novelty,	inventive step	and industrial ar	plicability
<u> </u>	of unity of invention				
	ned statement under Article	35(2) with regard to	o novelty, inve	ntive step or ind	ustrial
applic	ability; citations and explan	ations supporting su	ich statement		
	n documents cited				
Box No. VII Certai	n defects in the internationa	l application		•	
Box No. VIII Certain	n observations on the intern	ational application			
Date of submission of the demand		Date of completion	of this report		
Date of submission of the demand					
07.06.2005		20-01-200	6		
07-06-2005	Authorized officer				
Name and mailing address of the IPEA/ Patent- och registreringsverke		Addionized officer			
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Form PCT/IPEA/409 (cover sheet) (April 2005)					

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PCT/FI2003/000887

pplemental Box				
case the space in an	y of the preceding er sheet	boxes is not sufficient.		
INTERNATIO	NAL PATENT	CLASSIFICATION	(IPC):	
G01N 21/55	(2006.01)			

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Box	No. I	Basis of the report			
1.	With re	regard to the language, this report is based on:			
	\boxtimes	the international application in the language in which it was filed			
	a translation of the international application into which is the language of a translation furnished for the purposes of:				
		international search (Rules 12.3(a) and 23.1(b))			
		publication of the international application (Rule 12.4(a))			
		international preliminary examination (Rules 55.2(a) and/or 55.3(a))			
2.	furnisi	regard to the elements of the international application, this report is based on (replacement sheets which have been thed to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed re not annexed to this report):			
	\boxtimes	the international application as originally filed/furnished			
		the description:			
		pages as originally filed/furnished			
		pages* received by this Authority on received by this Authority on			
	Г —Л				
	Ш	the claims: as originally filed/furnished			
		pages			
		pages* as amended (together with any statement) under reductor is pages* received by this Authority on			
		pages* received by this Authority on			
1	П	the drawings:			
	ш	pages as originally filed/furnished			
		pages* received by this Authority on			
		pages* received by this Authority on			
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.			
3.		The amendments have resulted in the cancellation of:			
		the description, pages			
		the claims, Nos.			
		the drawings, sheets/figs			
		the sequence listing (specify):			
		any table(s) related to the sequence listing (specify):			
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not be made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Ru 70.2(c)).			
		the description, pages			
		the claims, Nos.			
		the drawings, sheets/figs			
		the sequence listing (specify):			
		any table(s) related to the sequence listing (specify):			
1.	If ite	em 4 applies, some or all of those sheets may be marked "superseded."			

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims Claims	6-9, 16-21 1-5, 10-15, 22	YES NO
Inventive step (IS)	Claims Claims	6-9, 16-21 1-5, 10-15, 22	YES NO
Industrial applicability (IA)	Claims Claims	1-22	YES NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: EP 0575132 A1 D2: GB 2268800 A D3: EP 0341927 A1 D4: WO 03034046 A1

The invention relates to surface plasmon resonance measurements and solves the problem with changing direction of the reflected beam when the prism is rotated.

Document D1, which is considered to represent the closest prior art, discloses a method and a device for carrying out surface plasmon resonance measurements. A laser beam 113 is directed through a semi-cylindrical prism 101 onto a thin, planar metal layer 106 in an angle of incidence. A resonance phenomenon is caused and the reflected beam is reflected further with a mirror to a detector 108 which measures the change of intensity of the beam, caused by the resonance phenomenon. The source, detector and SPR surface are held in fixed positions when the incidence angle is varied by means of prisms 110, 111. See column 3, line 22-column 5, line 14.

A method and device according to independent claims 1 and 11 and also dependent claims 3-5, 10, 13-15, 22 are known from document D1. Thus, the invention defined in claims 1, 3-5, 10, 11, 13-15 and 22 is not new and consequently lacks novelty and inventive step.

Documents D2-D4 disclose similar devices for carrying out surface plasmon resonance measurements comprising a mirror for

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box $\,V\,$

reflecting the reflected beam to the detector. In D4 the reflected beam is reflected further with a planar mirror 25, 117 arranged in plane parallel relation to the planar surface. Consequently, the subject matter of claims 1, 2, 11 and 12 is previously known from D4 and therefore lacks novelty.

To sum up, the invention claimed in claims 1-5, 10-15 and 22 lacks novelty (N). The invention defined in claims 6-9 and 16-21 is novel and is considered to involve an inventive step. All claims have industrial applicability (IA).